

ABSTRACT

Cell compositions consisting essentially of mammalian hematopoietic CXCR4⁺ stem and progenitor capable to migrate in response to stromal-derived factor 1 (SDF-1) and/or capable to adhere to stromal cells in response to an adhesion-inducing agent, are provided for clinical transplantation. Hematopoietic CXCR4^{-/low} stem and progenitor cells can be converted into CXCR4⁺ cells by stimulation with a suitable agent. The composition consists preferably of human CD38^{-/low} CXCR4⁺ cells.

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